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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/082,634	02/21/2002	Selena Chan	176/61011 (2-11144-1010)	4466	
7590 08/19/2004			EXAM	INER	
Michael L. Goldman			FORMAN, BETTY J		
NIXON PEABODY LLP Clinton Square			ART UNIT	PAPER NUMBER	
P.O. Box 31051			1634		
Rochester, NY 14603-1051			DATE MAILED: 08/19/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application	No	Applicant(s)					
			CHAN ET AL.					
Office Action Summary	10/082,634 Examiner		Art Unit					
· ·	BJ Forman		1634					
The MAILING DATE of this communication app		over sheet with the c		Iress				
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on IDS filed 26 April 2004.								
2a) This action is FINAL . 2b) This action is non-final.								
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4) Claim(s) 1-21 and 34-47 is/are pending in the application. 4a) Of the above claim(s) 35-45 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,20,21,34 and 46 is/are rejected. 7) Claim(s) 2-19 and 47 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)		·						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4/04.	3)	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:		O-152)				

DETAILED ACTION

1. Prosecution on the merits of this application is reopened on claims 1-21, 34, 46-47 considered unpatentable for the reasons indicated below:

Applicant's filing of a Supplemental Information Disclosure Statement after Notice of Allowance and reconsideration of the claimed subject matter necessitated new grounds for rejection.

Claims 35-45 are withdrawn from consideration as per restriction requirement of 25 June 2003.

Claims 1-21, 34, 46 and 47 are under prosecution.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 2-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2 and 3 are each indefinite for the recitation "the central active layer" because the recitation lacks proper antecedent basis in the "central layer" of Claim 1.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1, 20, 21, 34 and 46 are rejected under 35 U.S.C. 102(b) as being anticipated by Groger et al. (U.S. Patent No. 5,577,137, issued 19 November 1996).

Regarding Claim 1, Groger et al disclose a porous structure comprising a central layer (i.e. waveguide #3) interposed between upper and lower layers having layers of alternating porosity i.e. Bragg reflector (Column 4, lines 33-35 and 40-64) and one or more probes coupled to the porous structure whereby detectable change occurs in a refractive index upon probe binding (Column 2,lines 2-24; Column 5,lines 52-67; Column 8, lines 18-32 and Fig. 9).

It is noted that instant Claim 46 defines the upper and lower layers as Bragg reflectors.

Groger et al teach the layers are Bragg reflectors. Therefore, Groger teaches the claimed layers.

Regarding Claim 20, Groger et al disclose the structure comprising two ore more different probes i.e. multiple receptors (Column 4, lines 19-25).

Regarding Claim 21, Groger et al disclose the structure comprising two ore more different probes in different zones i.e. multiple receptors in the patterned wave guide (Column 4, lines 19-25; Column 5, lines 3-5 and 52-67).

Regarding Claim 34, Groger et al disclose a detection device comprising the structure of Claim 1, a source of illumination and a detector (Claim 1).

Regarding Claim 46, Groger et al disclose the upper and lower layers are Bragg reflectors (Column 4, lines 33-35).

6. Claims 2-19 and 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (571) 272-0741. The examiner can normally be reached on 6:00 TO 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

BJ Forman, Ph.D. Primary Examiner Art Unit: 1634

August 17, 2004